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Fig. 1

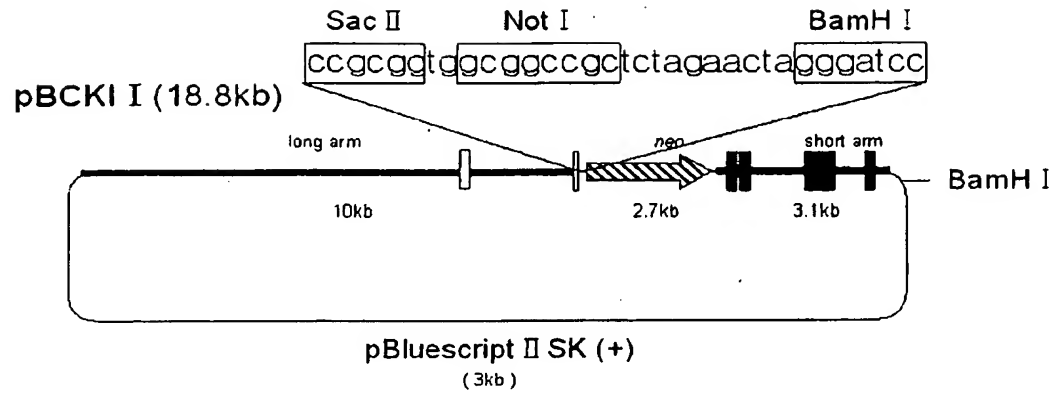
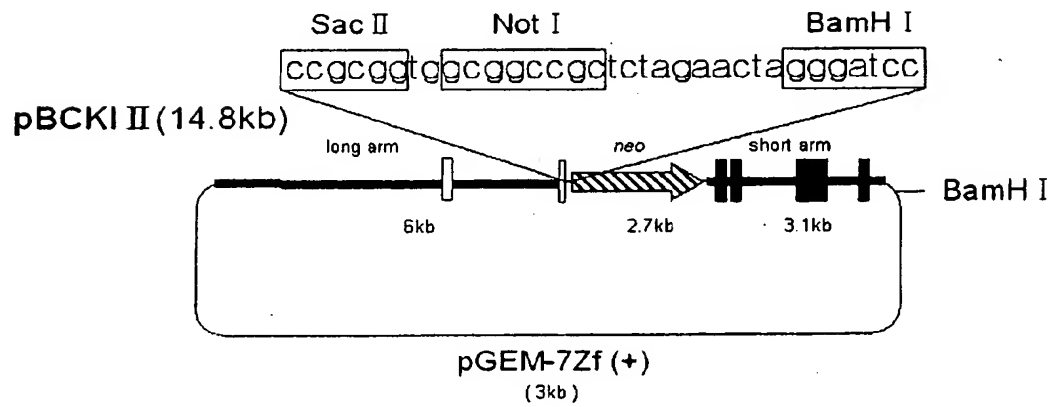
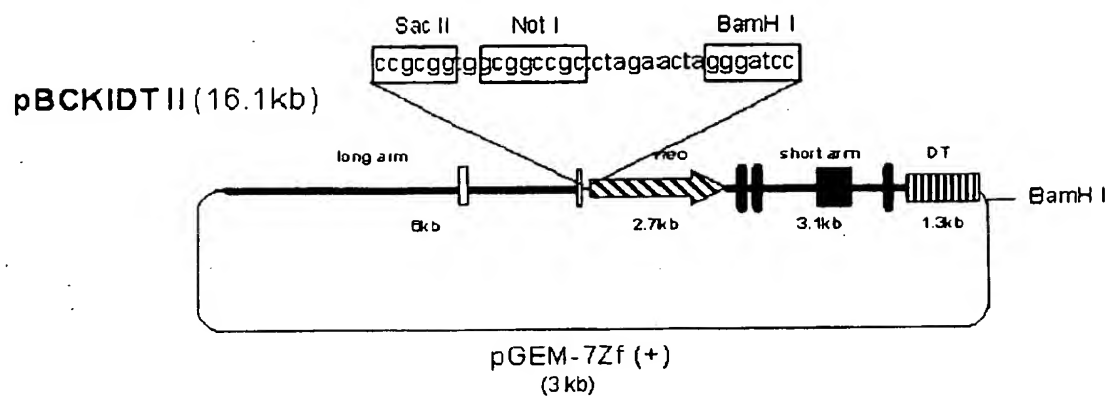


Fig. 2

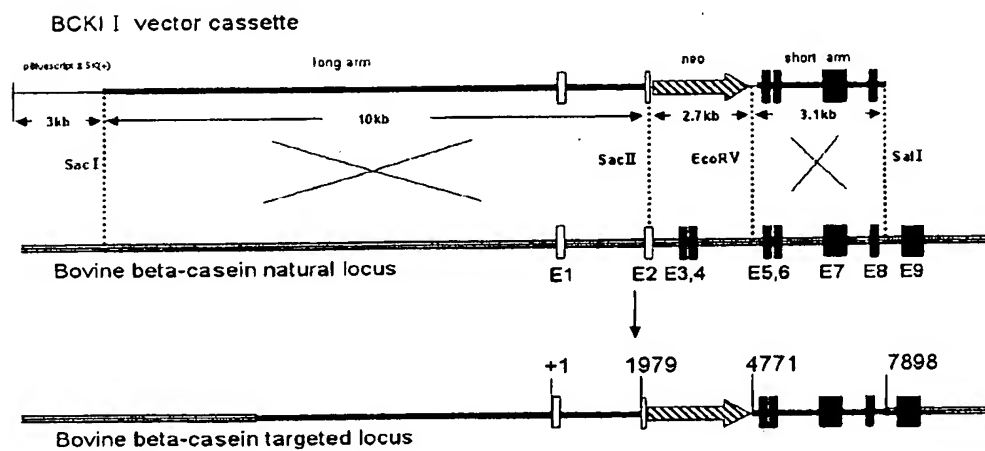


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**Fig. 3**



**Fig. 4**



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Fig. 5

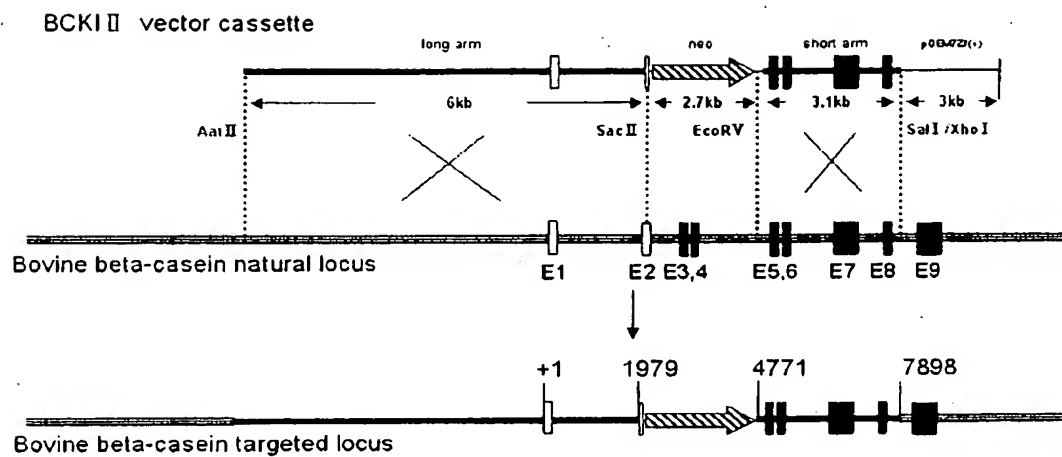
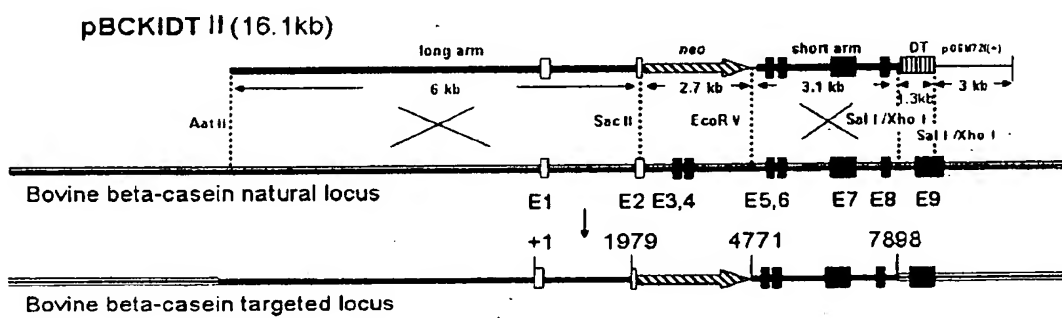


Fig. 6



**Fig. 7**



### Sequence B

### Sequence C

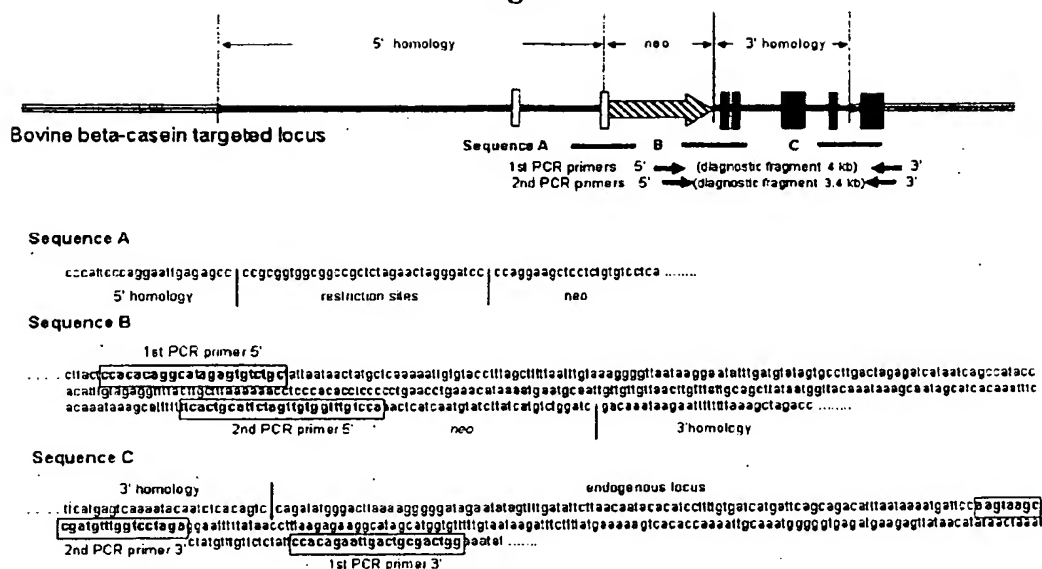
3' homology | endogenous locus

..... ttcatgagtc aaatacaatctc acagctc | cagatagggaactaaaggggg atagaatagatgttggatcttcaacaatcacatccttggatcatgagcagacatttaataaatgattccaaagtaagc  
cgaatgttggtctagagaagatttataaactctaaagagaaggcatalgcattggttttgaataagaattcttatgaaaa gctaccacaaatggcgaatgggggtgagatgaagaggttataacataataactaat  
ctatgtttctctatctc tcacagaatggatgcgcgacttg aatat .. .....

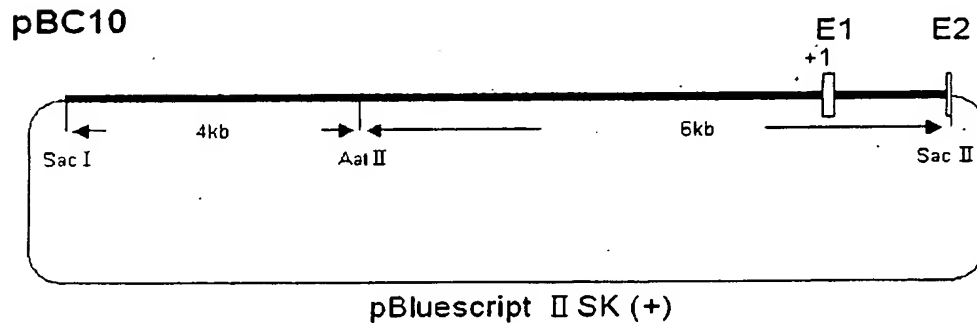
PCR primer 3'

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**Fig. 8**



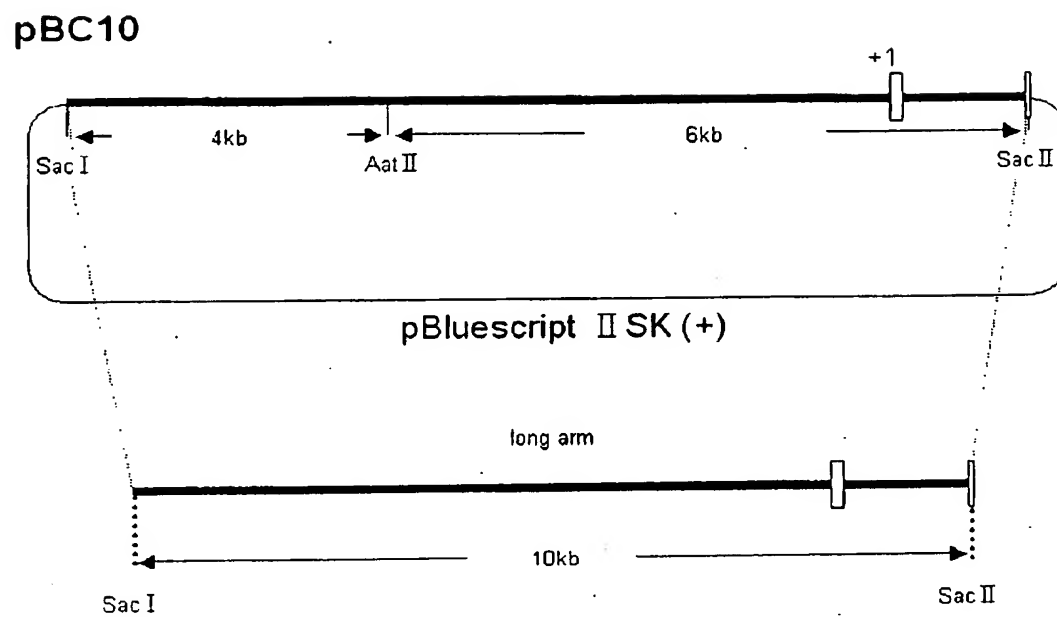
**Fig. 9**



enzymes which do not cut the beta-casein gene locus in BC10 vector  
Sma I , BamH I , Sal I , Spe I , Cla I

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Fig. 10



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Fig. 11

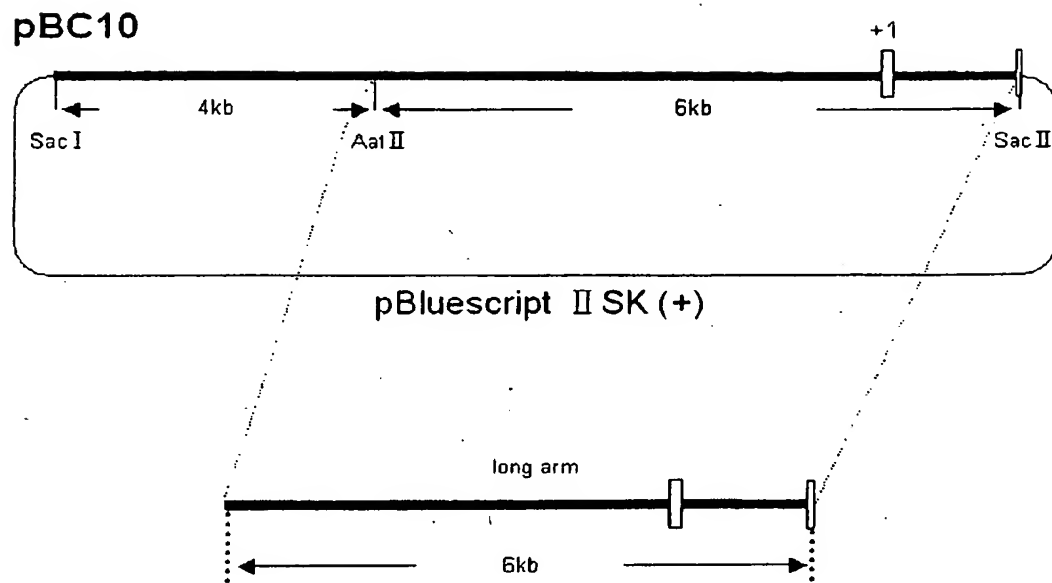
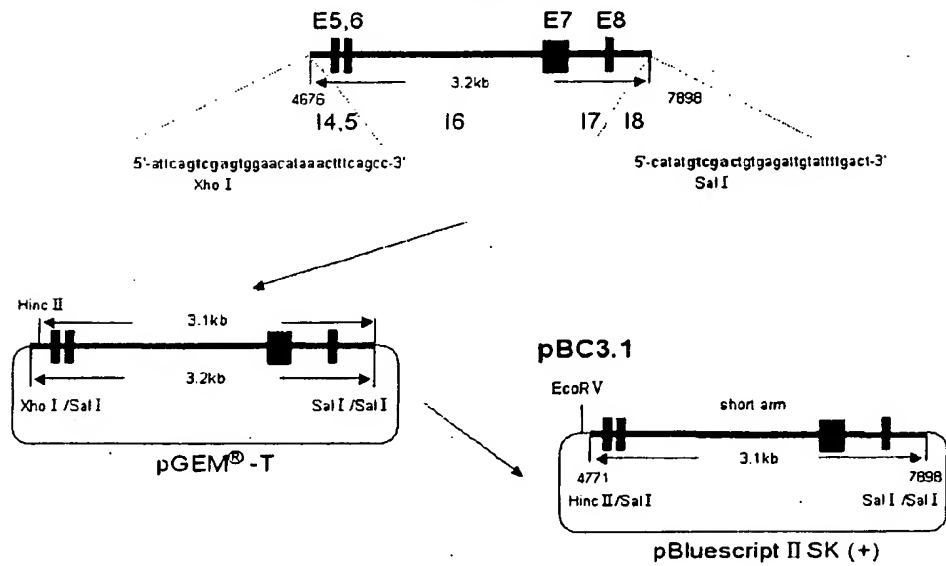
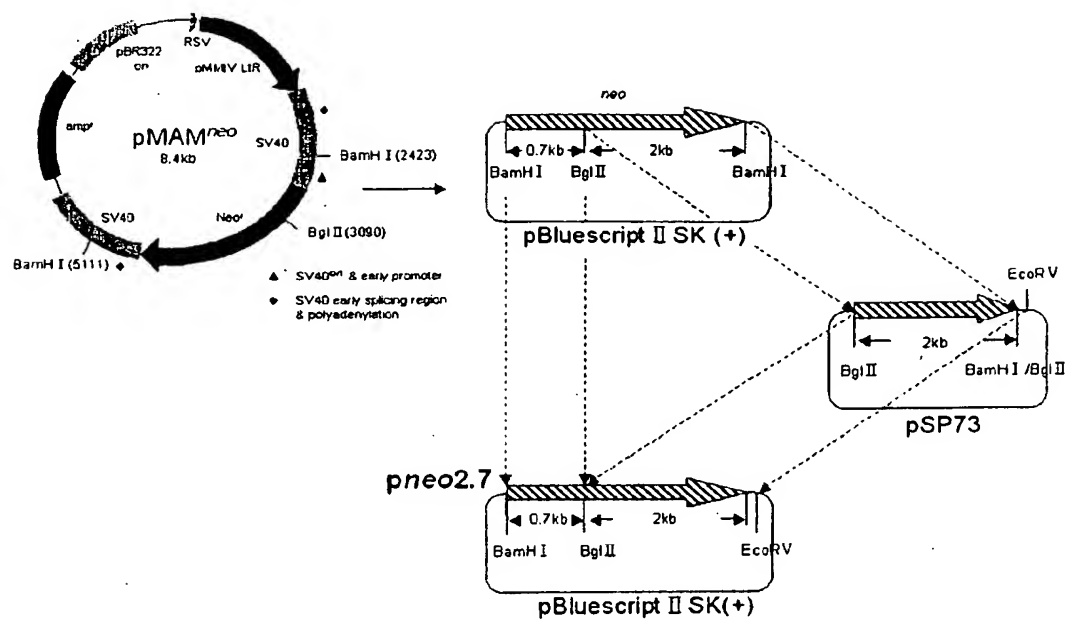


Fig. 12



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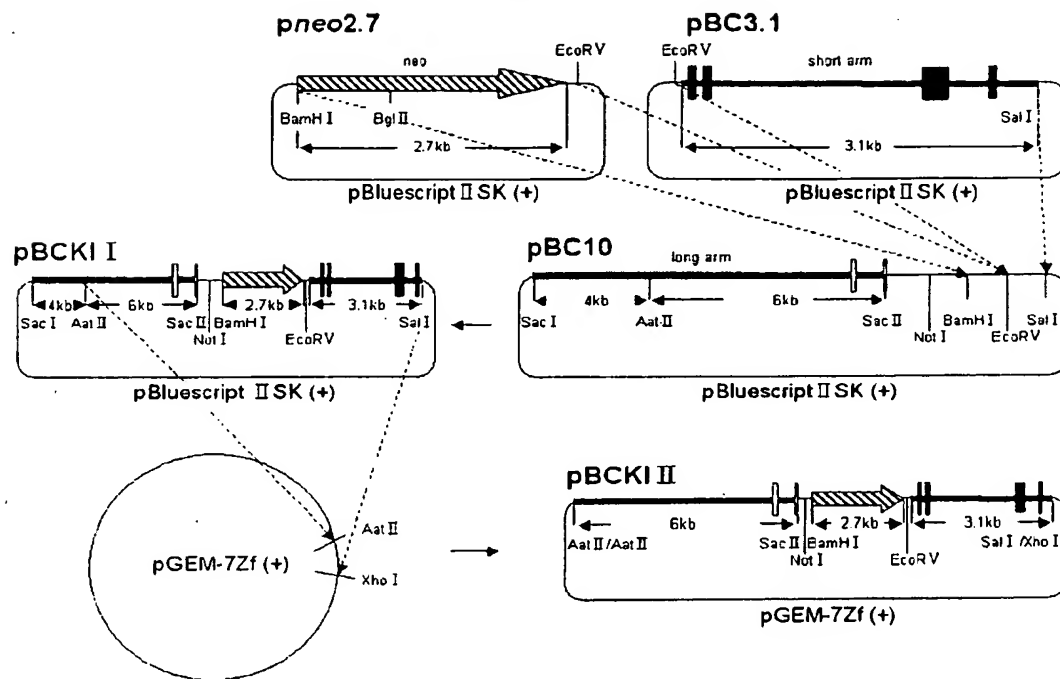
Fig. 13





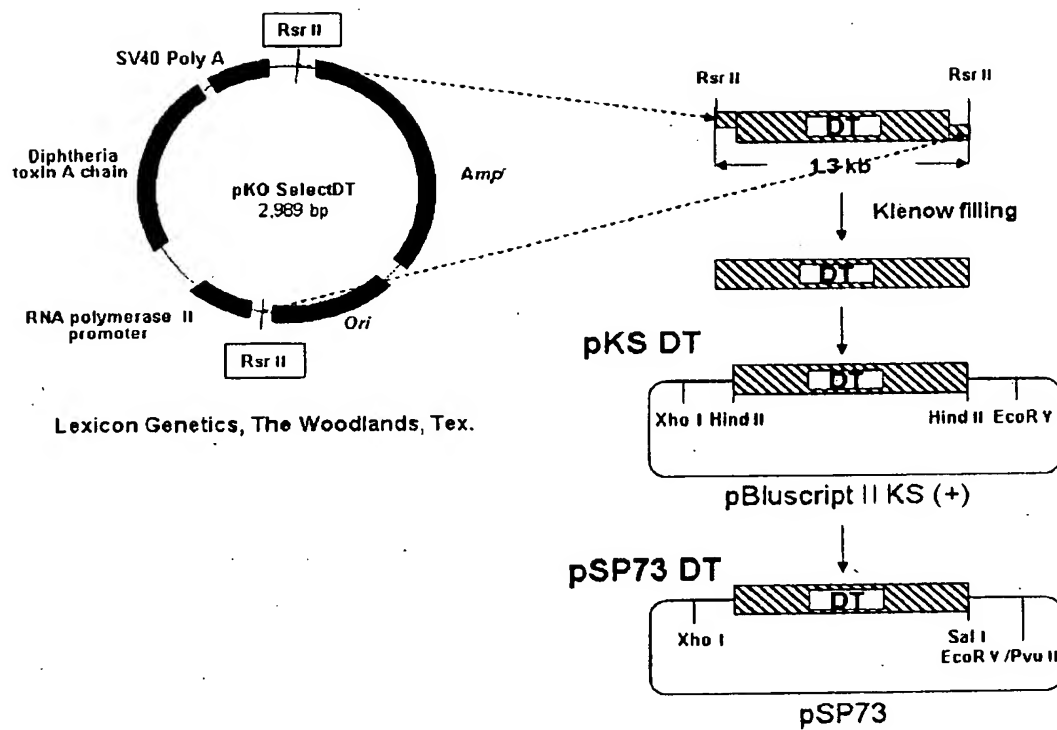
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Fig. 14



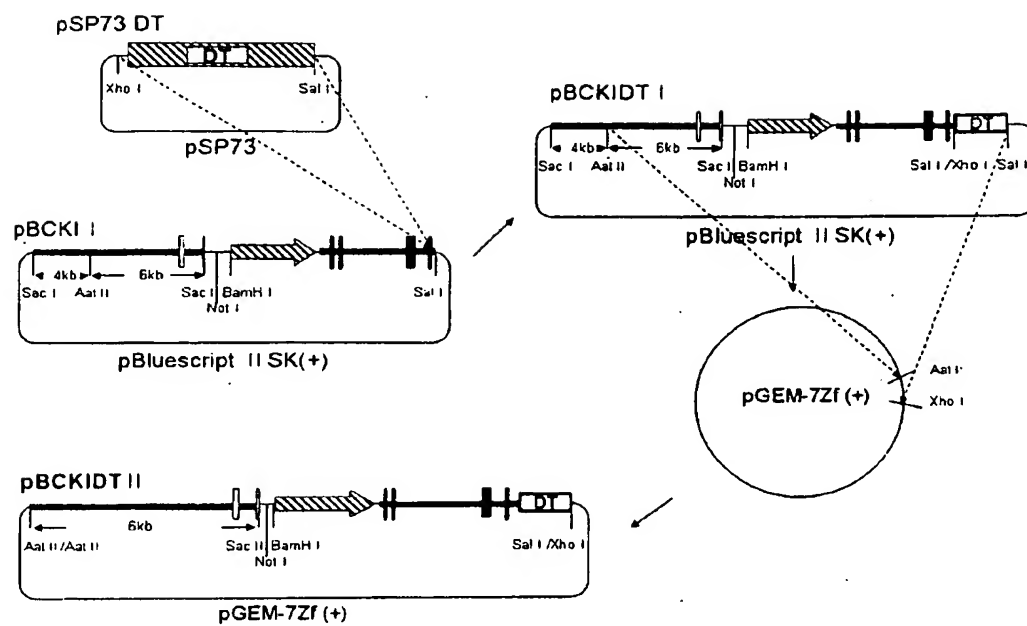
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Fig. 15



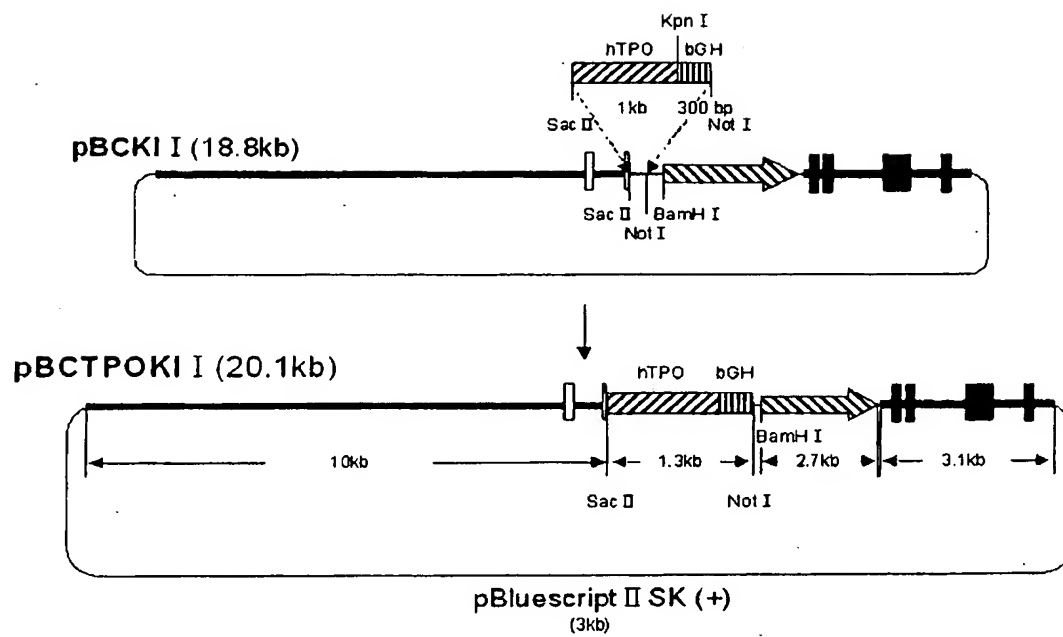
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Fig. 16



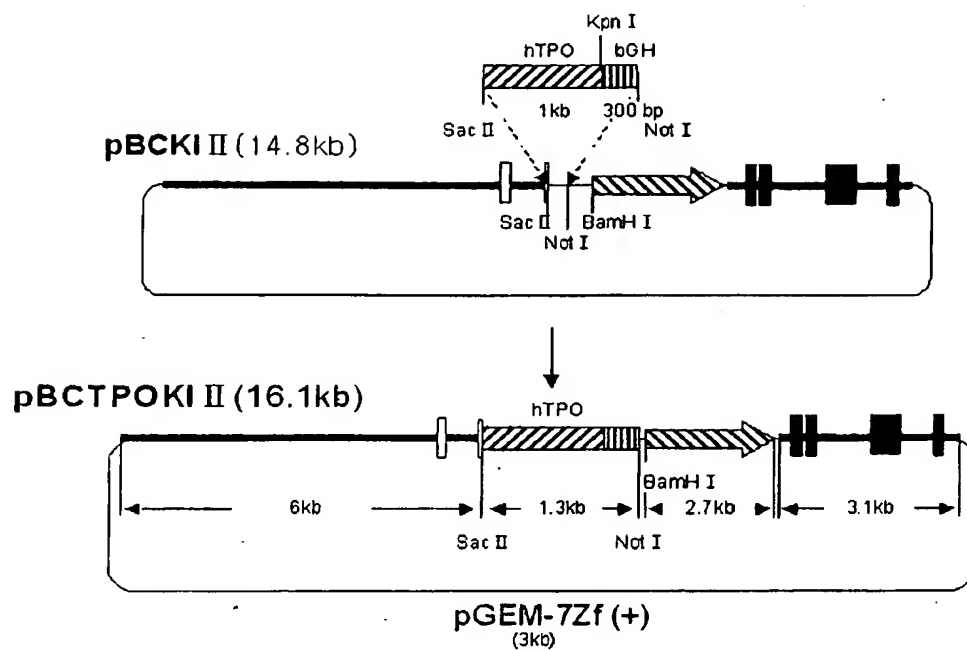
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Fig. 17



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Fig. 18



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Fig. 19

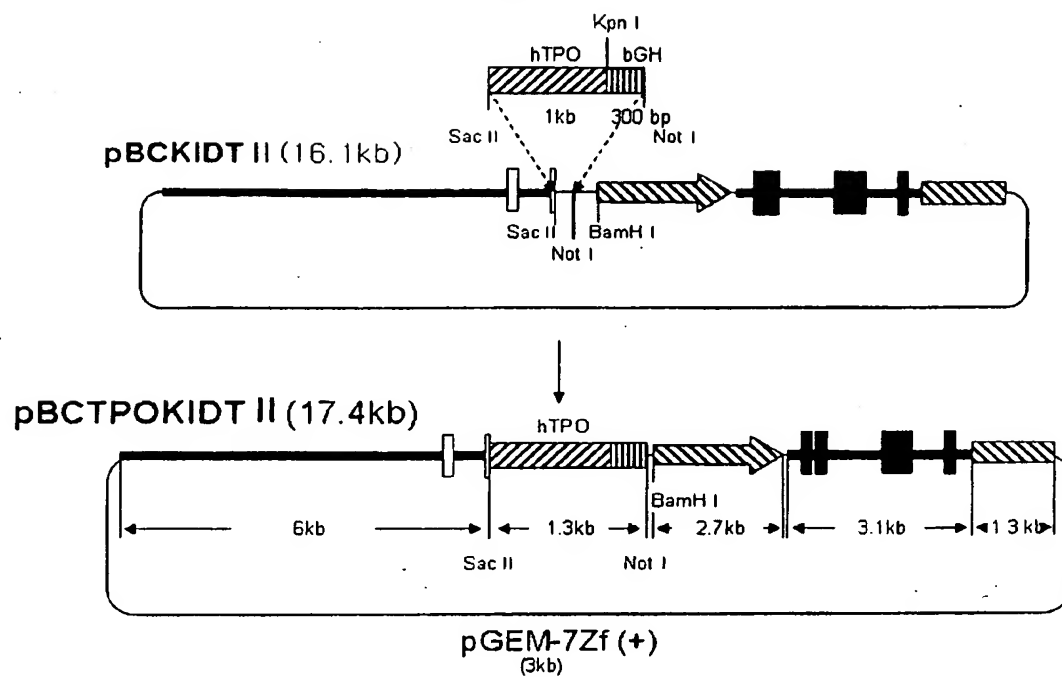
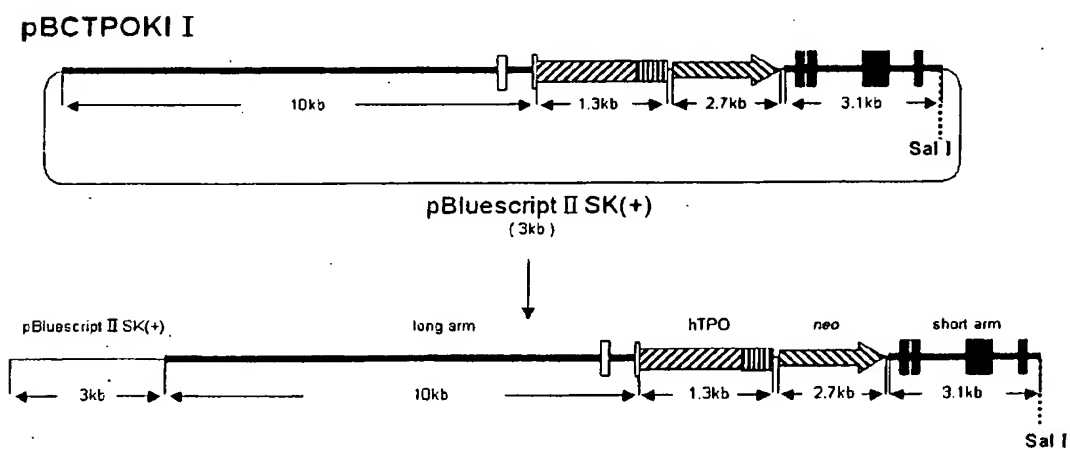


Fig. 20



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Fig. 21

pBCTPOKI II

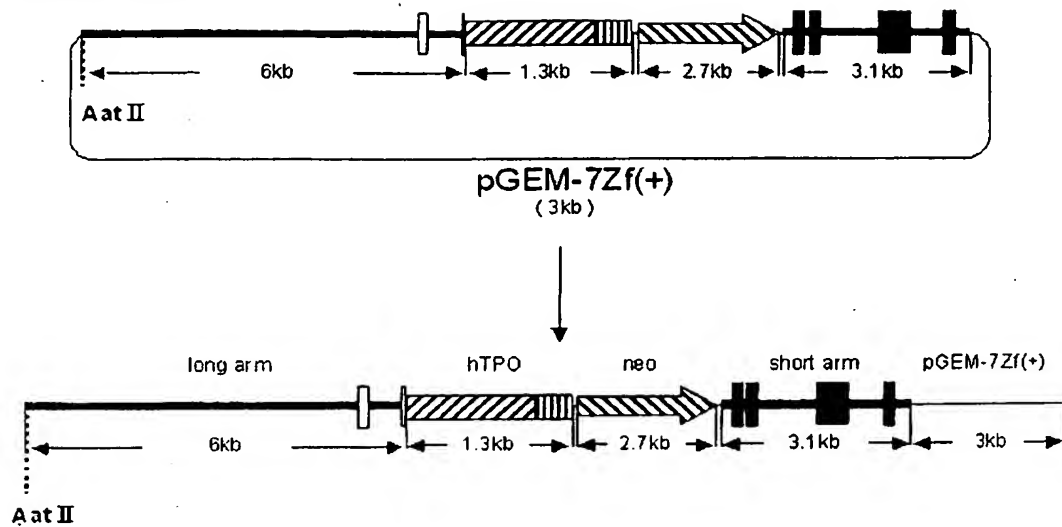
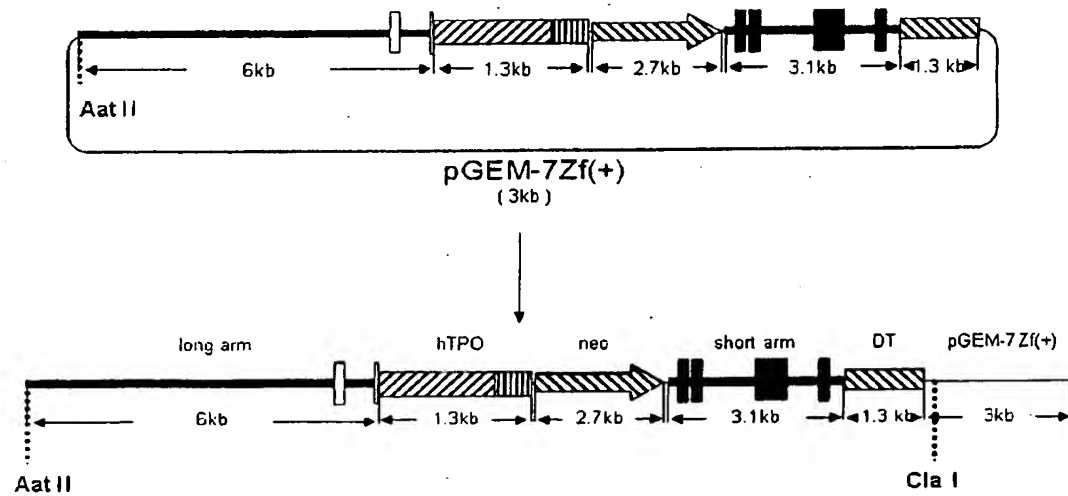


Fig. 22

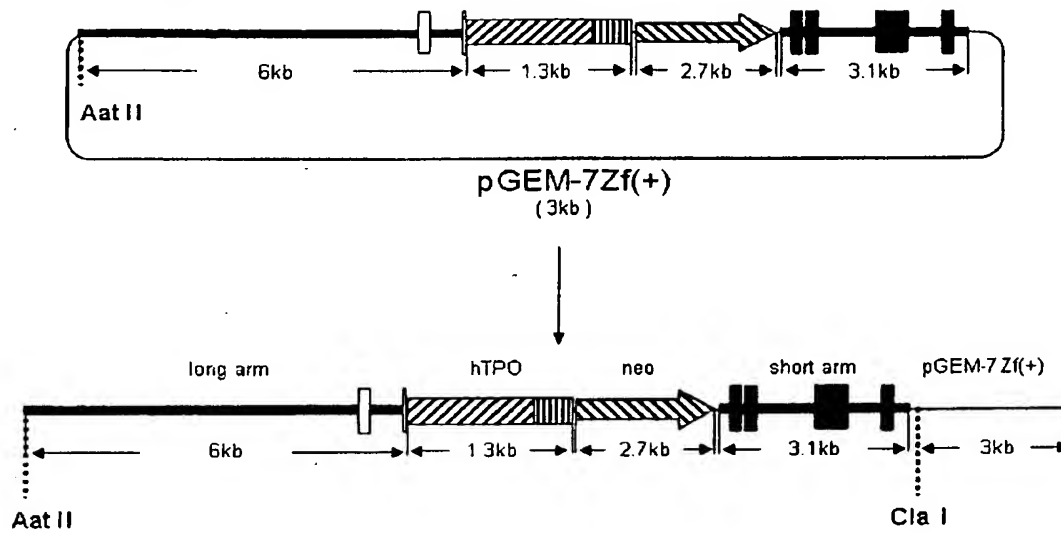
pBCTPOKIDT II



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Fig. 23

pBCTPOKI II





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Fig. 24

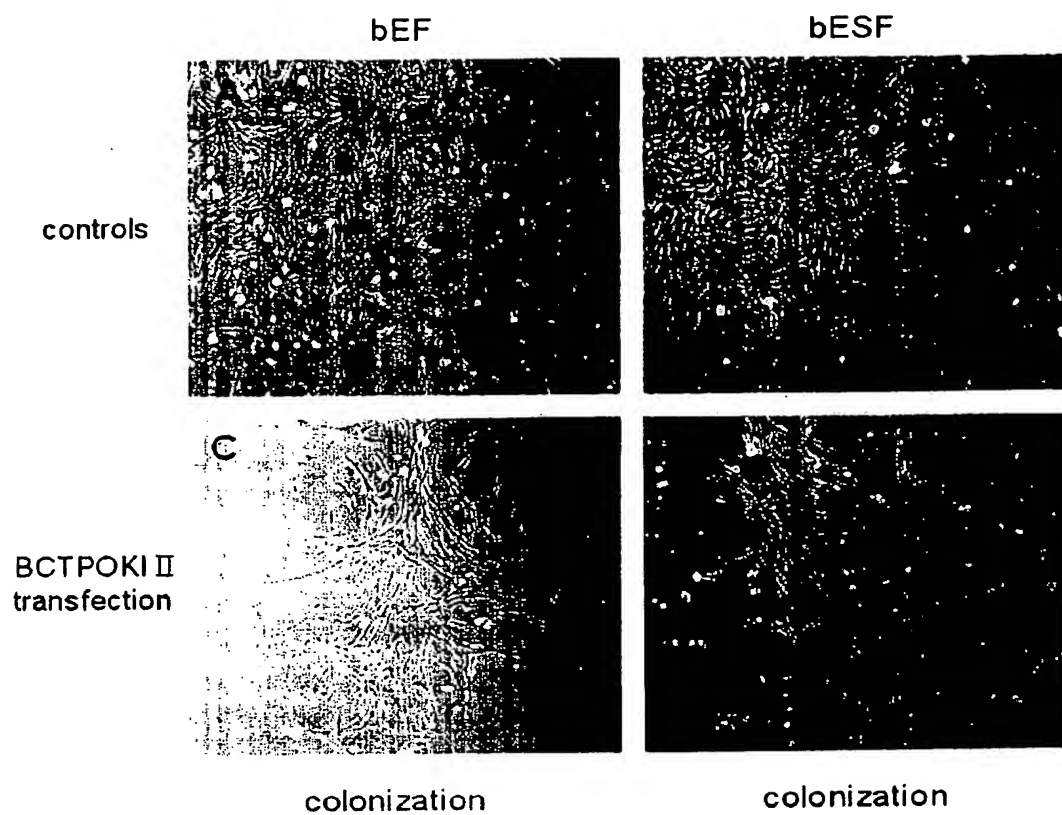
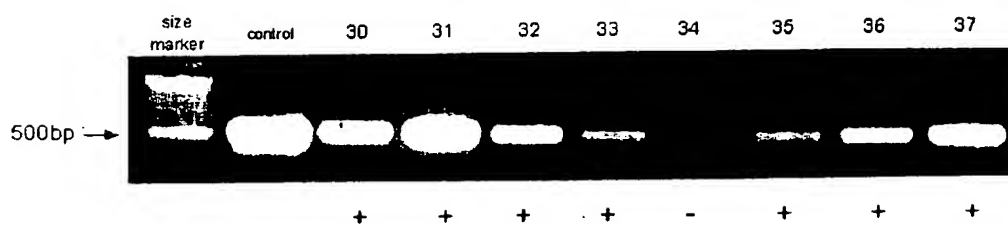


Fig. 25



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Fig. 26

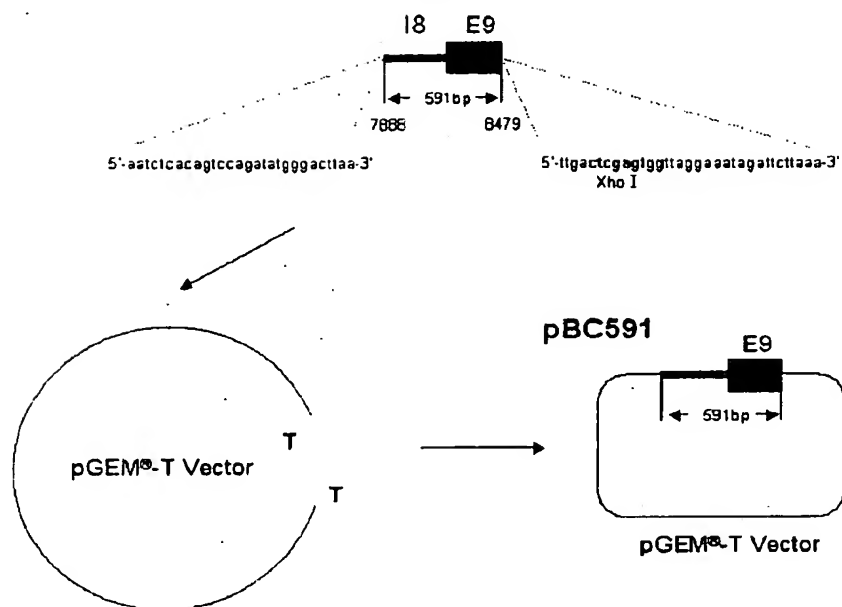
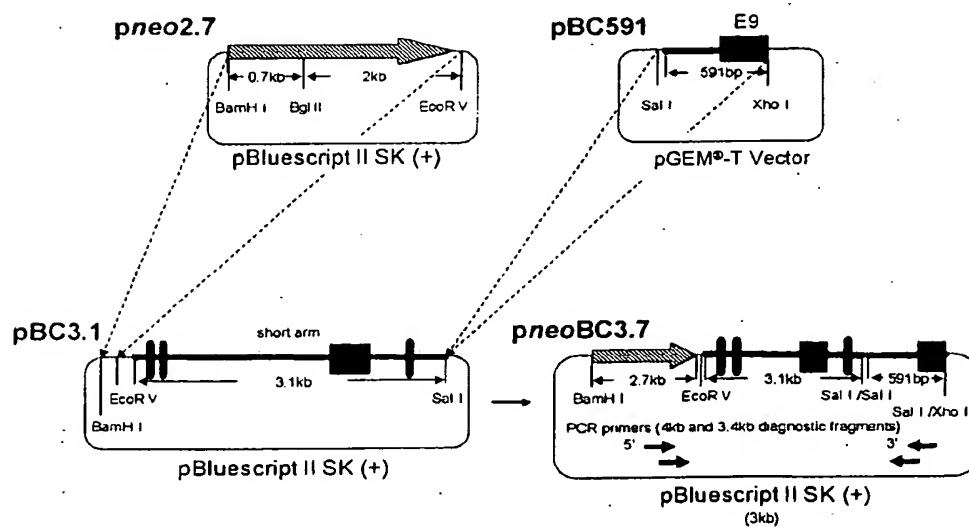
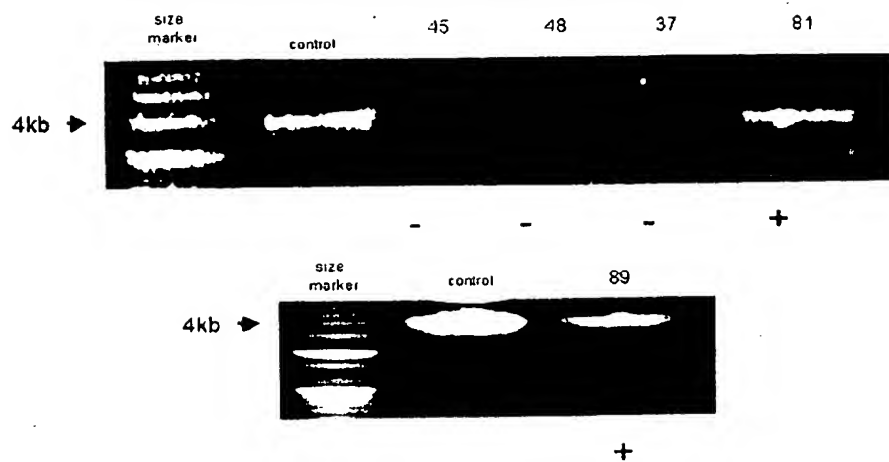


Fig. 27

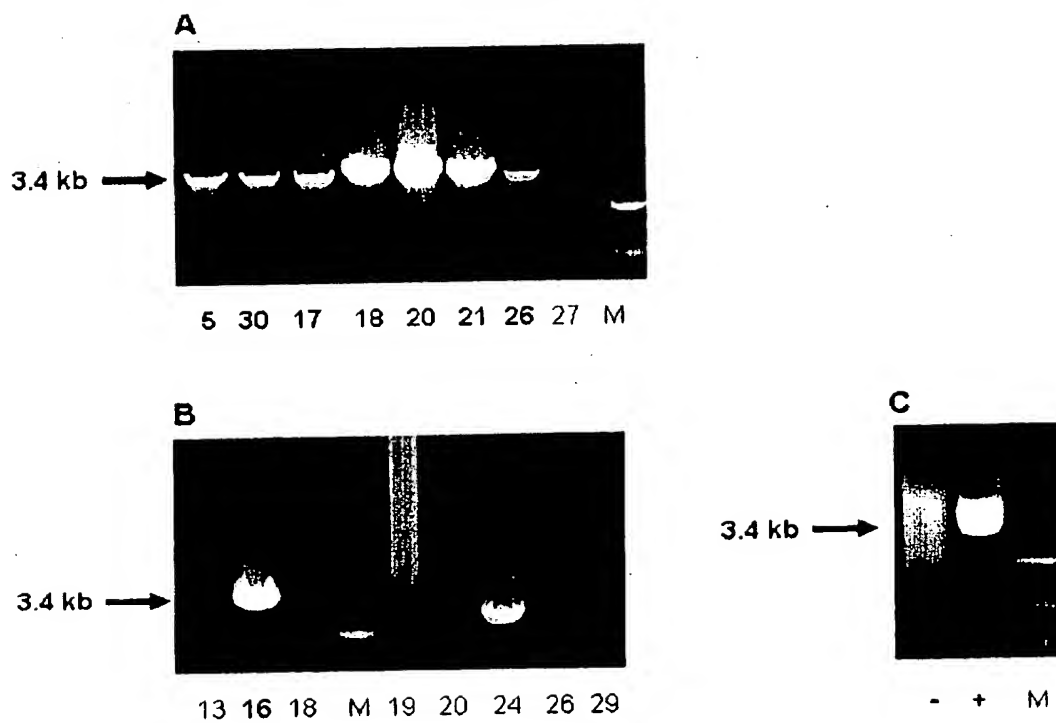


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**Fig. 28**



**Fig. 29**



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Fig. 30

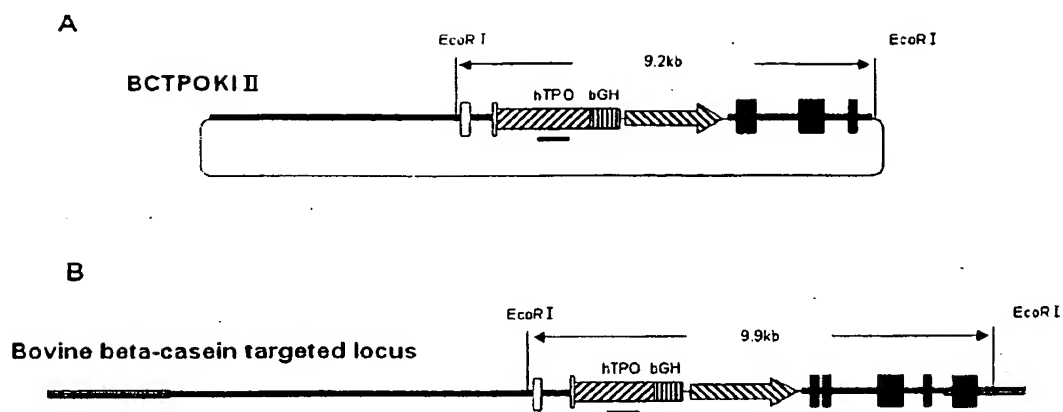
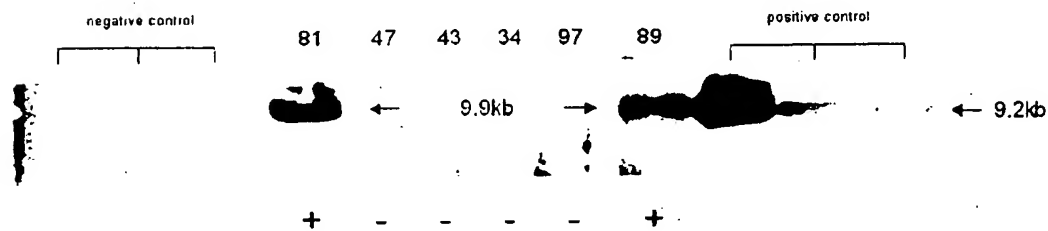


Fig. 31



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Fig. 32

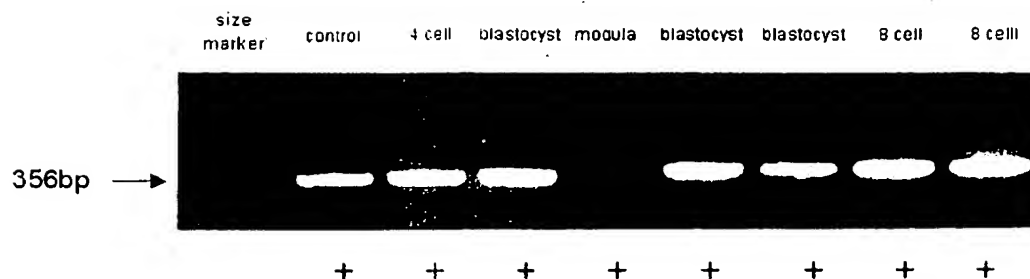
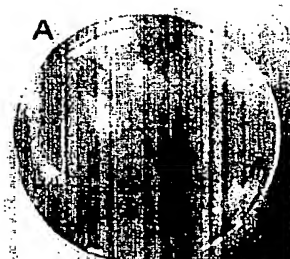
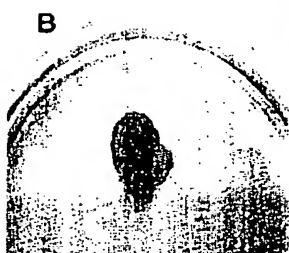


Fig. 33



A fetus enclosed with a fetal membrane



A fetal membrane-removed fetus



Cells derived from the fetal membrane

